

Amendments to the specification:

On page 5, please delete the following paragraphs:

~~Fig. 13: Establishing a lymphoproliferation assay for detection of cellular immune response~~

~~Fig. 14 (Fig 14-14b) Determination of the maximum cellular ^{51}Cr uptake~~

~~Fig. 15 (Fig. 15a-15e) Calculated specific lysis after the 2nd and 3rd booster immunization~~

Please replace the two paragraphs starting on page 52, line 26, with the following rewritten paragraphs:

--Target cells (5×10^3 , 2×10^4 , and 5×10^4) were labeled with 100 μCi for each 90 min., 150 min., and 240 min. The cellular ^{51}Cr -uptake as well as ^{51}Cr present in the culture supernatant were determined. In the supernatants of the labeled cultures, a linear increase of ^{51}Cr was measured (~~Figure 14a~~). The amount of cellular ^{51}Cr also increased with longer incubation times and higher numbers of cells.

Similar results were obtained when these experiments were performed using constant incubation times with different cell concentrations and amounts of ^{51}Cr (~~Figure 14a~~). The subtraction of the ^{51}Cr present in the cells and the ^{51}Cr released into the supernatant is shown in (~~Figure 14b~~). For the measurement of cytotoxic T-lymphocyte activities in the blood of the immunized horses, it was decided to label 5×10^4 target cells with 200 μCi for 240 min.--

Please replace the two paragraphs starting on page 53, line 12, with the following rewritten paragraphs:

--As described above, we labeled 5×10^4 target cells with 200 μCi for 240 min. To avoid spontaneous release of ^{51}Cr by the cells the target cells were kept on ice for 45 min after the first washing step. The effector cells were added to the cultures using effector/target cell ratios of 3:1, 25:1, and 50:1. After incubation for 8 h at 37°C and 5 % CO_2 culture plates were centrifuged at 1000 RPM for 3 min and each supernatant was measured for the presence

of ^{51}Cr in a scintillation. Negative control culture supernatants consisted of labelled cells without the addition of effector cells (spontaneous ^{51}Cr -release of the cells). Positive control culture supernatants consisted of cultures of labeled cells after cell lysis using 10 % Triton X-100 (maximum ^{51}Cr -uptake). The results of the ^{51}Cr -release of the individual cultures including the effector cells prior to immunization, two weeks after the 2nd and two weeks after the 3rd booster immunisation (see Table 11) are included as table 18. ~~Figures 15a)–15e)~~ show the calculated specific lysis ≥ 0 according to Hammond SA, Issel CJ, and Montelaro RC (1998): General method for the detection and in vitro expansion of equine cytolytic T lymphocytes. *J Immunol Method* 213: 73-85.

The data sheets containing the ^{51}Cr -release of the individual cultures (table 18) show the relative small standard deviations between the four individually handled cultures of each sample. Compared with the earlier cytotoxic T-cell assays performed with cells after the first immunization and the 1st booster immunization (see example 3), the differences between the negative control culture supernatants (spontaneous ^{51}Cr -release of the cells) and the positive control culture supernatants (maximum ^{51}Cr -uptake by the cells) are greater in the current assay. In general, we measured higher percentages of the calculated specific lysis (Fig. 15). In the cultures containing effector cells obtained prior to immunization, however, we also measured relatively high percentages of specific lysis. It would be expected to have higher amounts of ^{51}Cr released in the supernatants when higher number of effector cells were added to the targets. The values measured in the supernatants of the cultures with effector/target cell ratios of 3:1, 25:1, and 50:1, however, did not show such a consistence in specific lysis. Possibly, the number of antigen expressing target cells (approximately 20 %) are not high enough to enable the measurement of specific lysis. To enlarge the number of antigen positive cells, we used in the current experiments 5×10^4 target cells. Other possible reasons for the inconsistency of specific lysis are not efficient restimulations of the effector cells *in vitro* or other unknown methodical details.--

Please replace the Table on page 60 with the following page:



--Table 12: Skin Reaction of Horses: 24 hours post injectionem after first immunization*

	Daggy	Frieda	Nelke	Friedrich	Jessy
Numbers of papules	le: 6 ri: 6	le: 4 ri: 6	le: 2 ri: 1	le: 5 ri: 5	le: 6 ri: 6
Description of papules	le: severe swollen, epidermis becomes eroded ri: severe swollen, 1 papule without epidermis	le: severe swollen, epidermis becomes eroded ri: moderate swollen, Str.c.mild eroded	le: moderate swollen, Str.c. normal ri: see left	le: not to mild swollen, Str.c. normal ri: moderate swollen, Str.c. normal	le: mild to moderate swollen, Str.c. scaled ri: mild swollen, Str.c. scaled
Skin thickness					
i) normal	le: 0.25 cm ri: 0.30 cm	le: 0.30 cm ri: 0.30 cm	le: 0.20 cm ri: 0.20 cm	le: 0.30 cm ri: 0.35 cm	le: 0.40 cm ri: 0.40 cm
ii) papules	le: 0.60 cm ri: 0.60 cm	le: 0.60 cm ri: 0.60 cm	le: 0.45 cm ri: 0.40 cm	le: 0.40 cm ri: 0.40 cm	le: 0.60 cm ri: 0.60 cm
Diameter	le: 1.1 - 1.2 cm ri: 1.0 cm	le: 0.8 - 1.0 cm ri: 0.7 - 0.8 cm	le: 0.6 - 0.8 cm ri: 0.7 cm	le: 1.0 - 1.1 cm ri: 0.9 - 1.2 cm	le: 0.5 - 0.6 cm ri: 0.5 cm 1 papule: 1.0 cm
Features		on both sides: gnat bites with allergic oedema	very thin skin, le: 2 white circles	1 papule: Str.c.mild, swollen, congested and folding of skin	1 papule with erosion, strong oedema and pruritus

Le: left side of neck; ri: right side of neck; Str.c.: Stratum corneum * Immunization date: 23/05/2000; Skin reaction protocol date: 24/05/2000--

Please replace the Table on page 61 with the following page:

--Table 13: Skin Reaction Reaktionen of Horses: 48 hours post injectionem after first immunization*

	Daggy	Frieda	Nelke	Friedrich	Jessy
Numbers of papules	le: 6 ri: 6	le: 4 ri: 6	le: 2 ri: 1	le: 5 ri: 5	le: 6 ri: 6
Description of papules	le: severe swollen, epidermis becomes eroded ri: severe swollen, 1 papule without epidermis	le: severe swollen, epidermis becomes sever eroded ri: moderate swollen, Str.c.mild eroded	le: moderate swollen, Str.c. normal ri: see left	le: not to mild swollen, Str.c. normal ri: moderate swollen, Str.c.normal	le: mild to moderate swollen, Str.c. scaled ri: mild swollen, Str.c.scaled
Skin thickness					
i) normal	le: 0.25 cm ri: 0.30 cm	le: 0.30 cm ri: 0.30 cm	le: 0.20 cm ri: 0.20 cm	le: 0.30 cm ri: 0.35 cm	le: 0.40 cm ri: 0.40 cm
ii) papules	le: 0.70 cm ri: 0.60 cm	le: 0.50 - 0.60 cm ri: 0.45 cm	le: 0.45 cm ri: 0.40 cm	le: 0.40 cm ri: 0.40 cm	le: 0.60 cm ri: 0.60 cm
Diameter	le: 1.1 - 1.2 cm ri: 1.0 cm	le: 0.8 - 1.0 cm ri: 0.7 - 0.8 cm	le: 0.6 - 0.8 cm ri: 0.7 cm	le: 1.0 - 1.1cm ri: 0.9 - 1.2 cm	le: 0.5 ri: 0.9 - 1.2 cm
Features		on both sides: gnat bites with allergic oedema	very thin skin, le: 2 white circles	1 papule:Str.c.mild, swollen, congested and folding of skin	1 papule with erodin, strong oedema and pruitus

Le: left side of neck; ri: right side of neck; Str.c.:Stratum corneum * Immunization date: 23/05/2000; Skin reation protocol date: 24/05/2000--

Please replace pages 77-83 with the following pages:

-- Table 18 a) 2. CTL-Assay, 10/11.08.2000 Example 5 Table 18: ⁵¹Cr-release of individual cultures

Horse	Cells	ORF		Negative	Positive	Prior to Immunization		
				Control	Control		E:T	
						3 to 1	25 to 1	50 to 1
Daggy	Transfected	2						
				337	791	448	521	710
				361	815	495	661	528
				392	858	549	389	509
				360	952	542	558	457
			Mean	362,5	854	508,5	532,25	551
			SD	22,575798	70,969477	46,921921	112,37845	110,16654
			Specif.Lysis			0,2970498	0,3453713	0,3835198

Table 18 a) continued

Horse	Cells	ORF	After the 2nd Booster			After the 3rd Booster		
				E:T			E:T	
			3 to 1	25 to 1	50 to 1	3 to 1	25 to 1	50 to 1
Daggy	Transfected	2						
			503	444	312	558	594	
			473	512	417	480	849	
			500	481	402	666	541	
			709	516	407	415	736	791
		Mean	546,25	488,25	384,5	529,75	680	791
		SD	109,33549	33,390368	48,733972	108,01967	139,53972	#DIV/0!
		Specif.Lysis	0,3738555	0,2558494	0,0447609	0,3402848	0,6459817	0,871821

Table 18a) continued

Horse	Cells	ORF		Negative Control	Positive Control	Prior to Immunization			
						3 to 1	E:T 25 to 1	50 to 1	
Daggy	Transfected	5							
				211	499				
				252	594				
				243	556				
				221	598				
						250	255		297
				255	501	277	277		330
				270	462	295	296		330
				236	637	225	282		236
			Mean	241,14286	549,57143	261,75	277,5		298,25
			SD	20,358688	64,017855	30,696091	17,019597		44,31986
			Specif.Lysis			0,0668133	0,1178786		0,1851552

Table 18a) continued

Horse	Cells	ORF	After the 2nd Booster			After the 3rd Booster		
				E:T			E:T	
			3 to 1	25 to 1	50 to 1	3 to 1	25 to 1	50 to 1
Daggy	Transfected	5						
			192	259	263	226	233	
			228	286	259	232	260	247
			223	264	298	242	279	252
			244	274	301	200	223	247
		Mean	221,75	270,75	280,25	225	248,75	248,66667
		SD	21,76197	11,92686	22,321514	17,925773	25,513069	2,8867513
		Specif.Lysis	0,062876	0,0959935	0,1267948	-0,052339	0,0246642	0,024394

Table 18a) continued

Horse	Cells	ORF		Negativ	Positiv	Prior to Immunization		
.				Control	Control	E:T		
						3 to 1	25 to 1	50 to 1
Daggy	Transfected	7						
				350	542	612	449	450
				308	719	564	553	445
				261	609	462	445	362
				270	576	577	435	385
			Mean	297,25	611,5	553,75	470,5	410,5
			SD	40,639677	76,709408	64,437955	55,314254	43,791171
			Specif.Lysis			0,8162291	0,5513126	0,3603819

Table 18a) continued

Horse	Cells	ORF	After the 2nd Booster			After the 3rd Booster		
				E:T			E:T	
			3 to 1	25 to 1	50 to 1	3 to 1	25 to 1	50 to 1
Daggy	Transfected	7						
			465	493	407	271	249	251
			363	499	439	296	290	350
			453	630	391	241	265	484
			389	428	430	301	297	493
		Mean	417,5	512,5	416,75	277,25	275,25	394,5
		SD	49,32545	84,673884	21,823153	27,5	22,246723	115,88069
		Specif.Lysis	0,3826571	0,6849642	0,3802705	-0,063644	-0,070008	0,309467

Table 18 b)

Horse	Cells	ORF		Negative	Positive	Prior to Immunization		
				Control	Control		E:T	
						3 to 1	25 to 1	50 to 1
Jessy	Transfected	2						
				516	404			
				476	514			
				468	448			
				381	477			
					1060	667	526	539
					1082	570	693	539
					909	446	513	577
					1235	546	542	431
			Mean	460,25	766,125	557,25	568,5	521,5
			SD	56,85288	339,30494	90,757461	83,843107	62,936476
			Specif.Lysis			0,317123	0,3539027	0,2002452

Table 18 b) continued

Horse	Cells	ORF	After the 2nd Booster			After the 3rd Booster		
				E:T			E:T	
			3 to 1	25 to 1	50 to 1	3 to 1	25 to 1	50 to 1
Jessy	Transfected	2						
			423	462	518	384	302	400
			526	546	497	448	396	484
			435	496	528	495	395	579
			414	500	508	422	424	363
		Mean	449,5	501	512,75	437,25	379,25	456,5
		SD	51,720402	34,506038	13,301002	46,614554	53,225151	96,085032
		Specif.Lysis	-0,035145	0,1332244	0,1716387	-0,075194	-0,264814	-0,01226

Table 18 b) continued

Horse	Cells	ORF		Negative Control	Positive Control	Prior to Immunization E:T		
						3 to 1	25 to 1	50 to 1
Jessy	Transfected	5						
				225	309			
				257	246			
				229	404			
				242	334			
				187	353	253	231	248
				217	280	263	237	268
				216	260	236	278	244
				220	266	249	273	254
			Mean	224,125	306,5	250,25	254,75	253,5
			SD	20,483007	54,24284	11,176612	24,171264	10,503968
			Specif.Lysis			0,3171472	0,3717754	0,3566009

Table 18 b) continued

Horse	Cells	ORF	After the 2nd Booster			After the 3rd Booster		
				E:T			E:T	
			3 to 1	25 to 1	50 to 1	3 to 1	25 to 1	50 to 1
Jessy	Transfected	5						
			216	287	312	248	247	271
			260	274	293	219	252	289
			240	292	301	271	244	281
			253	274	291	250	267	308
		Mean	242,25	281,75	299,25	247	252,5	287,25
		SD	19,362765	9,1787799	9,5350232	21,369761	10,214369	15,671099
		Specif.Lysis	0,2200303	0,6995448	0,9119879	0,2776935	0,3444613	0,7663126

Table 18 b) continued

Table 18 b) continued

Horse	Cells	ORF		Negative	Positive	Prior to Immunization		
						E:T		
				Control	Control	3 to 1	25 to 1	50 to 1
Jessy	Transfected	7						
				470	501			
				483	599			
				460	584			
				433	768			
				496	539	645	536	546
				517	571	620	586	652
				801	758	585	519	620
				777	1592	532	595	533
			Mean	554,625	739	595,5	559	587,75
			SD	146,89251	358,03112	48,965975	37,211109	57,471007
			Specif.Lysis			0,2216949	0,0237288	0,179661

Table 18 b) continued

Horse	Cells	ORF	After the 2nd Booster			After the 3rd Booster		
				E:T			E:T	
			3 to 1	25 to 1	50 to 1	3 to 1	25 to 1	50 to 1
Jessy	Transfected	7						
			513	624	577	388	343	401
			493	571	605	403	407	423
			482	567	531	423	458	375
			515	607	563	381	398	403
		Mean	500,75	592,25	569	398,75	401,5	400,5
		SD	15,96611	27,777389	30,767949	18,589872	47,106263	19,689253
		Specif.Lysis	-0,292203	0,2040678	0,0779661	-0,845424	-0,830508	-0,835932

Table 18c)

Horse	Cells	ORF		Negative	Positive	Prior to Immunization		
				Control	Control		E:T	
						3 to 1	25 to 1	50 to 1
Friedrich	Transfected 2							
				246	2183			
				259	2704			
				229	1633			
				248	2325			
				220	657	315	327	426
				314	667	312	274	291
					633	299	289	273
				289	830	301	283	282
			Mean	257,85714	1454	306,75	293,25	318
			SD	33,233661	862,10854	7,9320027	23,329166	72,374028
			Specif.Lysis			0,0408754	0,0295892	0,0502807

Table 18c continued

Horse	Cells	ORF	After the 2nd Booster			After the 3rd Booster		
				E:T			E:T	
			3 to 1	25 to 1	50 to 1	3 to 1	25 to 1	50 to 1
Friedrich	Transfected	2						
			245	299	247	318	228	814
			281	508	321	371	315	678
			267	693	267	335	363	749
			331	295	279	313	238	953
		Mean	281	448,75	278,5	334,25	286	798,5
		SD	36,478304	190,81645	31,256999	26,247222	64,38944	117,01994
		Specif.Lysis	0,0193479	0,1595903	0,0172579	0,063866	0,023528	0,4519885

Table 18c continued

Horse	Cells	ORF		Negative Control	Positive Control	Prior to Immunization E:T		
						3 to 1	25 to 1	50 to 1
Friedrich	Transfected	5						
				272	830			
				354	716			
				304	607			
				281	675			
				233	687	250	327	271
				270	632	263	279	255
				220	712	296	278	269
				242	739	259	319	269
			Mean	272	699,75	267	300,75	266
			SD	43,02491	68,543521	20,08316	25,902059	7,393691
			Specif.Lysis			0,011689	0,0672122	-0,014027

Table 18c continued

Horse	Cells	ORF	After the 2nd Booster		After the 3rd Booster		
				E:T		E:T	
			3 to 1	25 to 1	50 to 1	3 to 1	25 to 1
							50 to 1
Friedrich	Transfected	5					
			253	269	253	246	239
			277	288	346	236	238
			283	252	320	245	258
			263	292	343	277	286
		Mean	269	275,25	315,5	251	255,25
		SD	13,56466	18,463929	43,255058	17,907168	22,470351
		Specif.Lysis	-0,007013	0,0075979	0,1016949	-0,049094	-0,039158

Table 18c continued

Horse	Cells	ORF		Negativ	Positiv	Prior to Immunization		
				Control	Control	E:T		
						3 to 1	25 to 1	50 to 1
Friedrich	Transfected	7						
				290	575			
				286	658			
				316	675			
				258	517			
				503	999	447	457	580
				537	1009	414	460	535
				389	1058	403	383	465
				424	999	436	331	590
			Mean	375,375	811,25	425	407,75	542,5
			SD	105,24792	225,1785	20,08316	62,339795	56,935636
			Specif.Lysis			0,1138514	0,0742759	0,3834241

Table 18c continued

Horse	Cells	ORF	After the 2nd Booster			After the 3rd Booster		
				E:T			E:T	
			3 to 1	25 to 1	50 to 1	3 to 1	25 to 1	50 to 1
Friedrich	Transfected	7						
			420	425	451	360	319	412
			478	500	423	376	360	496
			452	505	435	411	419	355
			356	366	438	320	346	336
		Mean	426,5	449	436,75	366,75	361	399,75
		SD	52,646621	66,337521	11,5	37,748068	42,245315	71,83488
		Specif.Lysis	0,1172928	0,1689131	0,1408087	-0,019788	-0,03298	0,055922

Table 18d

Horse	Cells	ORF		Negative	Positive	Prior to Immunization		
							E:T	
				Control	Control	3 to 1	25 to 1	50 to 1
Nelke	Transfected 2							
				874	3272	837	683	644
					2553	878	646	648
					2264	998	715	706
					2928	944	737	683
			Mean	874	2754,25	914,25	695,25	670,25
			SD	#DIV/0!	439,35587	71,135434	39,617967	29,57899
			Specif.Lysis			0,0214067	-0,095067	-0,108363

Table 18d continued

Horse	Cells	ORF	After the 2nd Booster			After the 3rd Booster		
				E:T			E:T	
			3 to 1	25 to 1	50 to 1	3 to 1	25 to 1	50 to 1
Nelke	Transfected	2						
			825	826	738	480	628	584
			773	919	748	552	565	711
			903	868	693	604	611	666
			758	858	696	596	590	530
		Mean	814,75	867,75	718,75	558	598,5	622,75
		SD	65,464367	38,577843	28,324018	56,803756	27,209067	81,163929
		Specif.Lysis	-0,031512	-0,003324	-0,082569	-0,168063	-0,146523	-0,133626

Table 18d continued

Horse	Cells	ORF		Negative Control	Positive Control	Prior to Immunization E.T		
						3:1	25 to 1	50 to 1
Friedrich	Transfected	5						
				538	975	506	470	509
				528	921	491	520	455
				540	933	503	479	573
				592	997	523	477	510
			Mean	549,5	956,5	505,75	486,5	511,75
			SD	28,815505	35,566838	13,200379	22,664216	48,245034
			Specif.Lysis			-0,107494	-0,154791	-0,092752

Table 18d continued

Horse	Cells	ORF	After the 2nd Booster			After the 3rd Booster		
				E:T			E:T	
			3 to 1	25 to 1	50 to 1	3 to 1	25 to 1	50 to 1
Nelke	Transfected 5							
			476	505	531	392	459	473
			495	520	469	429	554	551
			503	480	463	432	475	503
			494	499	509	459	483	443
		Mean	492	501	493	428	492,75	492,5
		SD	11,401754	16,552945	32,537158	27,5318	42,034708	46,054316
		Specif.Lysis	-0,141278	-0,119165	-0,138821	-0,298526	-0,139435	-0,140049

Table 18d continued

Horse	Cells	ORF		Negativ	Positiv	Prior to Immunization		
				Control	Control	E:T		
						3 to 1	25 to 1	50 to 1
Nelke	Transfected	7						
				399	1110	406	502	439
				526	822	514	455	432
				441	992	606	487	433
				378	954	632	513	428
			Mean	436	969,5	539,5	489,25	433
			SD	65,467549	118,66339	102,38978	25,197553	4,5460606
			Specif.Lysis			0,1940019	0,0998126	-0,005623

Table 18d continued

Horse	Cells	ORF	After the 2nd Booster			After the 3rd Booster		
				E:T			E:T	
			3 to 1	25 to 1	50 to 1	3 to 1	25 to 1	50 to 1
Nelke	Transfected	7						
			349	410	385	523	553	558
			323	482	524	538	530	627
			384	355	581	466	544	515
			451	352	540	649	498	569
		Mean	376,75	399,75	507,5	544	531,25	567,25
		SD	55,451931	60,971988	85,121482	76,563699	24,102213	46,147409
		Specif.Lysis	-0,1111059	-0,067948	0,1340206	0,2024367	0,178538	0,2460169

Table 18e

Horse	Cells	ORF		Negative	Positive	Prior to Immunization		
				Control	Control		E:T	
						3 to 1	25 to 1	50 to 1
Frieda	Transfected 2							
				121	239			
				144	227			
				140	222			
				153	227			
				207	296	118	137	152
				122	212	122	148	137
				121	228	139	156	130
				172	261	136	131	141
			Mean	134	239	128,75	143	140
			SD	29,985711	27,150375	10,307764	11,165423	9,2014492
			Specif.Lysis			-0,05	0,0857143	0,0571429

Table 18e continued

Horse	Cells	ORF	After the 2nd Booster		After the 3rd Booster	
				E:T		E:T
			3 to 1	25 to 1	3 to 1	25 to 1
						50 to 1
Frieda	Transfected 2					
			130	126	131	163
						145
			130	145		149
			134	145	136	127
			141	144	144	161
		Mean	133,75	140	137	150
						138,75
		SD	5,1881275	9,3452305	6,5574385	16,532796
						10,59481
		Specif.Lysis	-0,002381	0,0571429	0,0285714	0,152381
				0,0642857		0,0452381

Table 18e continued

Horse	Cells	ORF		Negative Control	Positive Control	Prior to Immunization E:T		
						3 to 1	25 to 1	50 to 1
Frieda	Transfected	5						
				90	118			
				67	107			
				73	136			
				84	134			
					137	73	81	92
				88	127	84	88	73
				81	132	89	84	92
				86	123	92	101	
			Mean	81,285714	126,75	84,5	88,5	85,666667
			SD	8,4006802	10,361329	8,346656	8,8128694	10,969655
			Specif.Lysis			0,0706991	0,1586803	0,0963603

Table 18e continued

Horse	Cells	ORF	After the 2nd Booster			After the 3rd Booster		
				E:T			E:T	
			3 to 1	25 to 1	50 to 1	3 to 1	25 to 1	50 to 1
Frieda	Transfected	5						
			89	72	80	82	106	101
				83	88	76	92	90
			82	85	84	93	101	81
			67	83	99	86	95	
		Mean	79,333333	80,75	87,75	84,25	98,5	90,666667
		SD	11,23981	5,9090326	8,1802608	7,1355915	6,244998	10,016653
		Specif.Lysis	-0,042943	-0,011783	0,1421838	0,0652003	0,3786332	0,2063367

Table 18e continued

Horse	Cells	ORF		Negative	Positive	Prior to Immunization		
				Control	Control	E:T		
						3 to 1	25 to 1	50 to 1
Frieda	Transfected	7						
					208			
				130	367			
				130	212			
				112	208			
				138	210	128	143	140
				148	317	158	154	149
					308	144	138	145
					264	128	150	
	Mean			131,6	261,75	139,5	146,25	144,66667
	SD			13,221195	62,3418	14,456832	7,1355915	4,5092498
	Specif.Lysis					0,0606992	0,1125624	0,100397

Table 18e continued

Horse	Cells	ORF	After the 2nd Booster			After the 3rd Booster		
				E:T			E:T	
			3 to 1	25 to 1	50 to 1	3 to 1	25 to 1	50 to 1
Frieda	Transfected	7						
			140	135	158	120	103	131
			144	146	147	115	133	148
			145	142	151	110	127	143
			153		143	111	151	130
		Mean	145,5	141	149,75	114	128,5	138
		SD	5,4467115	5,5677644	6,3966137	4,5460606	19,824228	8,9069261
		Specif.Lysis	0,1067998	0,0722244	0,1394545	-0,135229	-0,023819	0,049174

Table 19: Summary of the measured cytotoxic T-lymphocyte activities

Horse	ORF	Immunization	1.Booster	2.Booster	3.Booster
Frieda	2	++	++	-	+
	5	+	++	-	+++
	7	++	+	+	-
Daggy	2	+++	-	-	++++
	5	+++	++	-	-
	7	+++	-	-	-
Nelke	2	+	-	-	-
	5	+	+	-	-
	7	-	-	-	+++
Friedrich	2	-	-	+	+++
	5	+	+	+	-
	7	+	+	-	-
Jessy	2	+	+	-	-
	5	-	-	++++	+++
	7	++	+++	-	-

$$X = \frac{x_1(3:1) + x_2(25:1) + x_3(50:1)}{3} = \text{after immunization}$$

$$Y = \frac{y_1(3:1) + y_2(25:1) + y_3(50:1)}{3} = \text{before immunization}$$

$X - Y$ = absolute increase of the specific lysis in percent

X:

- = 0-5%
- + = >5-10%
- ++ = >10-20%
- +++ = >20-30%

Table 20: Summary of the measured cytotoxic T-lymphocyte activities

horse	orf	immunization	1.booster	2.booster	3.booster
Frieda	2	+	+	-	-
	5	-	+	-	++
	7	+	-	-	-
Daggy	2	++	-	-	+++
	5	++	+	-	-
	7	++	-	-	-
Nelke	2	-	-	-	-
	5	-	-	-	-
	7	-	-	-	++
Friedrich	2	-	-	-	++
	5	-	-	-	-
	7	-	-	-	-
Jessy	2	-	-	-	-
	5	-	-	+++	++
	7	+	++	-	-

$$x = \frac{x_1(3:1) + x_2(25:1) + x_3(50:1)}{3} = \text{after immunization}$$

$$y = \frac{y_1(3:1) + y_2(25:1) + y_3(50:1)}{3} = \text{before immunization}$$

$x - y$ = absolute increase of the specific lysis in percent

x:

- - = 0-5%
- + = >5-10%
- ++ = >10-20%
- +++ = >20-30%

Amendments to the Drawings

Delete Drawings 13, 14 a), 15c), 15d).

Please amend drawings 3, 4, 5, 6, 7, 8, 9, 10 and 11 as shown in changes made in red ink in the following replacement sheets: